

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/052719

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01D5/16 G01B7/30

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01D G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category "	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 4 646 088 A (INOUE ET AL) 24 February 1987 (1987-02-24) column 2, line 47 - column 3, line 66 -----	1-3,7-9
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 24, 11 May 2001 (2001-05-11) & JP 2001 202606 A (HEADWAY TECHNOLOGIES INC), 27 July 2001 (2001-07-27) abstract	1-3,7-9
A	EP 0 932 019 A (CHERRY GMBH) 28 July 1999 (1999-07-28) column 5, line 46 - column 6, line 2 -----	4,6
A	US 6 473 278 B1 (GILL HARDAYAL SINGH) 29 October 2002 (2002-10-29) claim 10 -----	5
		-/-

Further documents are listed in the continuation of box C

Patent family members are listed in annex

\* Special categories of cited documents

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

2 March 2005

Date of mailing of the international search report

20.05.05

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 2003/123197 A1 (MIZUGUCHI TETSUYA ET AL) 3 July 2003 (2003-07-03) paragraph [0021] -----	6

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/052719

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons.

- 1  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely.
  
- 2  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically
  
- 3  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

- 1  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

Magnetic encoder system

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2. claims: 10,11

Method for fabricating a magnetic encoder disk

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/052719

Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
US 4646088	A	24-02-1987	JP DE FR GB IT	59007213 A 3324176 A1 2529666 A1 2123562 A ,B 1170425 B	14-01-1984 05-01-1984 06-01-1984 01-02-1984 03-06-1987
JP 2001202606	A	27-07-2001	NONE		
EP 0932019	A	28-07-1999	DE EP	19802381 A1 0932019 A2	12-08-1999 28-07-1999
US 6473278	B1	29-10-2002	NONE		
US 2003123197	A1	03-07-2003	JP	2003198003 A	11-07-2003